

GL7 Monoclonal Antibody (GL-7 (GL7)), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgM
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GL-7 (GL7)
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573807

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	9 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: This GL7 monoclonal antibody reacts with a cell-surface protein found on T and B lymphocytes activated in vitro, on bone marrow pre-B-II cells, germinal center B cells, and also human B cell lines Ramos and Daudi. There is strain variability with respect to antigen distribution on thymocytes and Con A-activated spleen cells, with expression in BALB/c greater than that in C57BL/6. GL7 is commonly used as a marker for mouse germinal center B cells. The epitope of GL7 has been identified as a sialic acid glycan moiety called Neu5Ac. This moiety is recognized by CD22.

Applications Reported: This GL-7 (GL7) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This GL-7 (GL7) antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

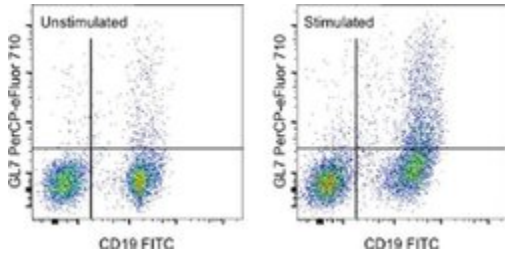
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For GL7 Monoclonal Antibody (GL-7 (GL7)), PerCP-eFluor™ 710, eBioscience™



GL7 Antibody (46-5902-82) in Flow

C57Bl/6 splenocytes were unstimulated (left) or stimulated (right) with F (ab')₂ Anti-Mouse IgM, μ chain specific Functional Grade Purified (Product # 16-5890) and Anti-Mouse CD40 Functional Grade Purified (Product # 16-0401-82) for 3 days and then stained with Anti-Mouse CD19 FITC (Product # 11-0193-82) and 0.25 μ g of Anti-Human/Mouse GL7 (T and B Cell Activation Marker) PerCP-eFluor® 710. Total viable cells, as determined by Fixable Viability Dye eFluor® 506, were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

10 References

Flow Cytometry (9)

The Journal of clinical investigation

v Integrins regulate germinal center B cell responses through noncanonical autophagy.

"Published figure using GL7 monoclonal antibody (Product # 46-5902-82) in Flow Cytometry"

Authors: Raso F, Sagadiev S, Du S, Gage E, Arkatkar T, Metzler G, Stuart LM, Orr MT, Rawlings DJ, Jackson SW, Lacy-Hulbert A, Acharya M

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

Act1 is a negative regulator in T and B cells via direct inhibition of STAT3.

"Published figure using GL7 monoclonal antibody (Product # 46-5902-82) in Flow Cytometry"

Authors: Zhang CJ, Wang C, Jiang M, Gu C, Xiao J, Chen X, Martin BN, Tang F, Yamamoto E, Xian Y, Wang H, Li F, Sartor RB, Smith H, Husni ME, Shi FD, Gao J, Carman J, Dongre A, McKarns SC, Coppieters K, Jørgensen TN, Leonard WJ, Li X

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

The Journal of biological chemistry

Human B-lymphocytes express alpha2-6-sialylated 6-sulfo-N-acetyllactosamine serving as a preferred ligand for CD22/Siglec-2.

Authors: Kimura N, Ohmori K, Miyazaki K, Izawa M, Matsuzaki Y, Yasuda Y, Takematsu H, Kozutsumi Y, Moriyama A, Kannagi R

Species
Not Applicable

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

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